

Career and Technical Education Highlights for October 2017

Career Experience:

Chantilly Academy:

Northrop Grumman Awards Chantilly Academy \$10,000 STEM Grant

Northrop Grumman—a business partner of Chantilly HS and Chantilly Academy for 30 years and Fairfax County Public Schools 2016 Business Partner of the Year recently awarded Chantilly Academy a \$10,000 grant to fund several programs in STEM initiatives. The initiatives and programs supported include; FIRST Robotics annual sponsorship, funds to purchase equipment to create an innovative/collaborative learning space in the building, annual sponsorship of CyberPatriot summer camp, and robotics kits used in STEM Engineering and Engineering Robotics classes. The funds are greatly appreciated as Chantilly Academy continues to offer a wide-range of STEM course offerings and increase student interest in pursuing STEM.

Guest Speaker—National Cybersecurity Awareness Month

As part of National Cybersecurity Awareness Month students had the opportunity to hear from a special guest speaker from Chief Information Officer-U.S. Department of Defense Cybersecurity Strategy Division. The purpose of the session was for a variety of topics including the U.S. critical situation in terms of cyber preparedness, information on career opportunities within the cyber field, and awareness of safeguarding and protecting confidential and personal information. The speaker emphasized all of the recent initiatives around training programs and projects available to students to support the shortcomings in the cyber workforce development. Most importantly, students learned the rewarding aspect of working in the cyber fields and important of protecting national security.

Engineering, Cyber, and Entrepreneurship students visit Virginia Tech

A group of forty students from Engineering, Cyber, and Entrepreneurship courses were invited to take a day-long trip to visit Virginia Tech. The visit was highly specialized so that the group of students could get the most out of learning about the College of Engineering and Pamplin College of Business. Each group attended a focused information session led by students and advisors and had the opportunity to ask questions about admissions, high school to college transition, financial aid, courses, and much more. The students also benefited from hands-on activities, tours of classrooms, labs, and facilities, and lunch with former Chantilly High school students that are now attending Virginia Tech.

Edison Academy:

Guest Speakers in September

Culinary Arts - Culinary Institute of America conducted cooking demonstrations and provided information about the school for culinary students.

A Crime Prevention Officer from the Mount Vernon District Station who spoke on property crimes, the Explorer & Youthful Driver programs, and other crime prevention related topics for criminal justice classes.

The Work of Power Engineers

Meeting and tour of HVAC classroom by National Association of Power Engineers (NAPE) Educational Foundation, Executive Director and a NAPE HVAC instructor to explore ways to partner to help students learn about the important work of power engineers.

“Understanding Your Paycheck”

American Payroll Association presentations to over 200 students from CTE classes on “Understanding Your Paycheck” with supplemental information provided to students on new employee employment forms that affect take home pay.

Falls Church Academy:

Ribbons for Breast Cancer Awareness

Falls Church Academy HOSA students have been busy making ribbons in support of breast cancer awareness that will be sold and distributed throughout Falls Church High School and other schools where Academy students attend. Fire and EMS as well as Exploring Health Science students made pink cloth ribbon pins that will be given to those who donate any change during lunches. Medical Assistant students made paracord ribbon key chains to help spread the word about Breast Cancer Awareness. Key chains the students made will sell for \$4 each. All proceeds will be donated to the Virginia Breast Cancer Foundation.

Each month, HOSA students will learn about and create a project in support of various health related issues.

Medical Students Attend Therapeutic Horse Riding

Falls Church Medical Assisting students visited Lift Me Up! a therapeutic riding program in Great Falls, Virginia. On Saturday, September 23, Medical Assistant students attended a session at the Center. Students experienced what disabled children go through to accomplish what others would see as

everyday tasks. They connected with these children on a personal level and witnessed the benefits that riding and movement has for those who are differently abled.

Practical Nursing Students Collect Personal Care Kits for Hurricane Relief

The HOSA group at the School of Nursing in Fairfax County Public Schools has completed their first service project of the year. Students collected items for Personal Care Kits and have already given them to Brother's Brother Foundation who will send them to hurricane victims in Puerto. Soap, shampoo, deodorant, washcloths, combs/brushes, razors, shaving cream, toothbrushes, toothpaste and pocket packs of tissue were collected to create these kits. Once collected the items were sorted and put into plastic zip bags for easy distribution. Students were able to fill sixty bags. The HOSA Class President, said, "It was really good for me to organize this event. It was good to spur other people on to participate and then see all the things we collected. It was a really good feeling to know that we were able to help someone else who really needed it."

During this activity the Nursing students learned about emergency preparedness and how to ensure their loved ones are safe during a disaster should one occur near them. Jan Rayl and Jackie Portnoy are the teachers for these classes and Jan Rayl is the HOSA Advisor.

Marshall Academy:

Transportation Career Fair

On Thursday, October 5, Auto Tech students participated in VDOT's Annual Transportation Career Fair. Students engaged with business and higher educational professionals in the transportation arena. Various job opportunities were shared and numerous pathways to enter for a career in transportation were highlighted.

Culinary Institute of America (CIA) Visits Culinary Program

On Thursday, October 5, NOVA's Chef Herbert presented to the culinary program regarding opportunities at Northern Virginia Community College and taught Marshall Academy Culinary Arts students how to prepare a meal that was both healthy, budget friendly, and appealed to a diverse group.

Criminal Justice Takes Philly by Storm

On Friday, October 13, and Friday, October 27, Marshall Academy Criminal Justice students took a field trip to Philadelphia to visit Eastern State Penitentiary to learn about its history and its transformation to becoming one of the most popular and profitable haunted houses in the country. Students also visited the US Mint, Independence Hall, the Liberty Bell, and Reading Terminal.

CyberPatriot Practice Round Competition

On Saturday, October 14th, the Cyber Security Club participated in CyberPatriot's practice competition round. This year, Marshall Academy has 12 teams competing.

Family and Consumer Sciences (FACS):

Real Food for Kids is a Finalist for Community Partner of the Year!

The Foundation for Fairfax County Public Schools we are pleased to announce that Real Food for Kids is a finalist for the 2017 FCPS Community Partner of the Year award! The FCPS Partner Awards honor businesses and non-profits for above-and-beyond leadership and social responsibility within the FCPS school system.

Sandburg MS Incorporates Technology in FACS using Padlet

Ms. Jones first period class were introduced to using a Padlet. The students were instructed to make one post under each age group. The students loved it! [Students Padlet Entries](#)

Culinary Success!

Lake Anne Elementary School reached out to the Culinary Arts program at South Lakes HS and asked if a lesson on local, seasonal food could be provided for their students. Lake Anne Elementary School has a garden and thought it would be a wonderful opportunity to continue the educational process by having the culinary arts program help bring their garden to life.

The Culinary Arts Level 2 students invited the elementary students to visit South Lakes HS to see what a commercial kitchen looked like, enjoy lunch served by the culinary students, and see several cooking demonstrations featuring local, seasonal food.

The entire planning process included writing recipes, developing the menu, executing the demonstrations, and charting the timeline of each day. The Culinary Arts 2 student's curriculum requires them to understand what goes into the planning, costing, and running of a restaurant. This project was a good place for them to start!

[Video of Lake Anne Elementary students visiting Culinary Program at South Lakes HS](#)

Health and Medical Sciences:

Over 50 health and medical students at West Potomac Academy participated in the first of its kind Careers in Health Care Symposium at INOVA Mount Vernon on October 17, 2017. Students had the opportunity to meet with health care professionals and tour hospital departments such as the pharmacy, blood bank, rehabilitation facility, and radiology.

Health and medical science students at Falls Church Academy and Chantilly Academy took field trip to the INOVA Cardiac Dome to watch open heart surgeries.

During their unit on emergency preparedness, HOSA students in the Practical Nursing program collected personal care items and put together personal care kits for hurricane relief.

Marketing:

McLean High School's DECA president received the Youth Leadership Award at a recent ceremony to recognize local community supporters.

McLean High School marketing students had a booth at Celebrate McLean. The students created a handprint poster that is currently on display at McLean, and will be featured on the McLean High School website.

Marketing students from Chantilly participated in several work-based learning opportunities this month. The students visited Custom Ink, Hershey and created a pink out shirt for Breast Cancer Awareness.

Ericka Symonette, one of the marketing teachers at Lake Braddock Secondary received a VIP ticket to attend a New York Fashion Week show. The show was for the launch of a new eco-friendly fashion brand called Livari. Livari is a zero waste, ethically made womenswear brand made in New York. This new label is a collaboration between Claudine DeSola (celebrity stylist), Alysia Reiner (actress from Orange Is The New Black), and Tabitha St. Bernard-Jacobs (fashion designer). The VIP ticket included backstage access, food, admission to the pre-party and after party, as well as a second row seat.

Marketing students from Madison High School created public service announcements to honor 9-11 and to support the Hurricane victims. Students were encouraged to create posters/ads/videos that kept to message (corporate social responsibility) and demonstrated promotion in the form of community action.

The Region 2 DECA District Leadership Conference will be held on Monday, November 6, 2017, at Dulles Expo Center in Chantilly. Approximately 100 judges are needed to make this event successful. If you are interested in judging, please register by going to [DECA Judge Registration](#) or contact Amy Granahan at algranahan@fcps.edu.

Technology Education and Engineering:

Kim Gadson, Twain Middle School; TSA National Competition - 2017

Congratulations to Kim Gadson and her students from Twain Middle School on their huge success in Orlando, Florida at the Technology Student Association (TSA) National Conference. Twain MS was recognized as "Top Ten" recipients in an outstanding SEVEN events, most notably 1st place in Electrical Applications and 3rd place in Microcontroller Design. [TSA National Competition Results](#)

Sam Allen, Marshall HS; FIRST Global Competition

FIRST Global organizes a yearly international robotics challenge to ignite a passion for Science, Technology, Engineering, and Mathematics (STEM) among the more than two billion [youths across the world](#). The challenge this summer was held at the [DAR Constitution Hall](#) in Washington, D.C and focused on the issue of [accessibility to clean drinking water](#). This year, students in Mr. Allen's FIRST Robotics club at Marshall High School assisted Team Iran in building their robot, due to their kit not being allowed to ship. Team Gryphons spent countless hours video chatting with the Iran team to bring their design alive and ready for the competition. Additionally, Mr. Allen and his team mentored Team Egypt.

Article: [Iranian High School Students First to Arrive in Washington, D.C. for International Robot Olympics at DAR Constitution Hall](#)

Video: [FIRST Global - Team Iran Video](#)

Lake Braddock SS; STEM Camp 2017

STEM Camp is designed to give students the opportunity to explore engineering careers and technology as they rotate through different classes over a one week program. This year we welcomed nearly 450 students from around Fairfax County to participate in STEM-related courses, including: Aerospace, Robotics, Renewable Energy, 3D Design and Modeling, and new for 2017 Arduino Building and Programming!

Thoreau Middle School; VTEEA Middle School Program of the Year

The Technology and Engineering Education team at Thoreau Middle School (Michael Ulderich, Frank Guyer and Darcie Jones) were honored at the 2017 VTEEA Summer Conference as recipients of the

"Henry David Middle School Program of the Year" Award. The Program Excellence award recognizes superior TEE programs that displays instruction of high quality, learner centered, and relevant to a study of technology. This dynamic team has incorporated new innovative lessons that are preparing students for the advanced programs at the high school level and has implemented a school-wide makerspace that exposes all students at Thoreau to the engineering design process and creativity.